

FOX T USW 203 • Installation Guide

IMPORTANT:
Refer to www.extron.com for the complete user guide and installation instructions before connecting the product to the power source.

CLASS 1 LASER PRODUCT, see FOX T USW 203 User Guide at www.extron.com

This guide provides instructions for an experienced installer to install and connect the Extron FOX T USW 203 Universal Switcher with an integrated fiber optic transmitter.

NOTE: The FOX T USW 203 is not compatible with the FOX 3G HD-SDI, FOX 3G DVC, or FOX AV models.

WARNING: Risk of serious physical injury. The device outputs continuous invisible light, which may be harmful to the eyes; use with caution.

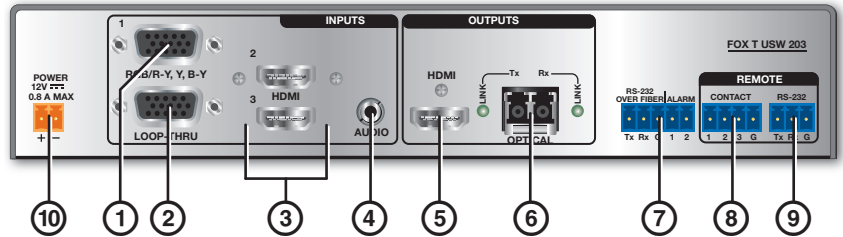
- Do not look into the fiber optic cable connectors or into the fiber optic cables themselves.
- For additional safety, plug the attached dust caps into the optical transceivers when the fiber optic cable is unplugged.

Installation

Step 1 — Mounting

Turn off or disconnect all equipment power sources and mount the transmitter and receiver as required.

Step 2 — Making Connections



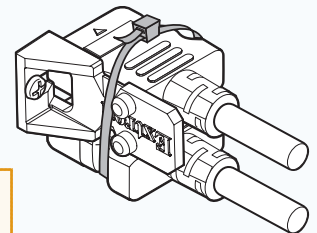
- ① **Analog video input connector** — Connect an analog RGB or YUV video source to this female 15-pin HD VGA connector, labeled input 1.
- ② **Analog video loop-thru connector** — Connect an analog RGB or YUV video display to this female 15-pin HD VGA connector for a local display. This output is always active.
- ③ **HDMI input connectors** — Connect a source device to these female HDMI connectors, labeled inputs 2 and 3. They can accept HDMI, DVI, or DisplayPort video signals.

NOTE: Video input from a DisplayPort source must be a dual mode DisplayPort format.

TIP: Use an Extron LockIt® Lacing Bracket to secure an HDMI cable to each device as follows.

1. Plug the HDMI cable into the panel connector.
2. Loosen the HDMI connection mounting screw from the panel enough to allow a LockIt lacing bracket to be placed over it. The screw does not have to be removed.
3. Place a LockIt lacing bracket on the loosened screw and against the HDMI connector, then tighten the screw to secure the bracket.

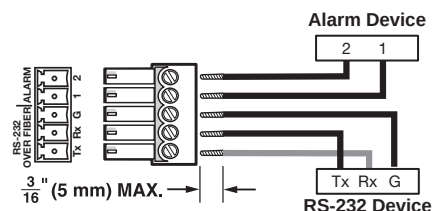
ATTENTION: Do not overtighten the HDMI connector mounting screw. The shield it fastens to is very thin and can easily be stripped.



Stacked
HDMI Connectors

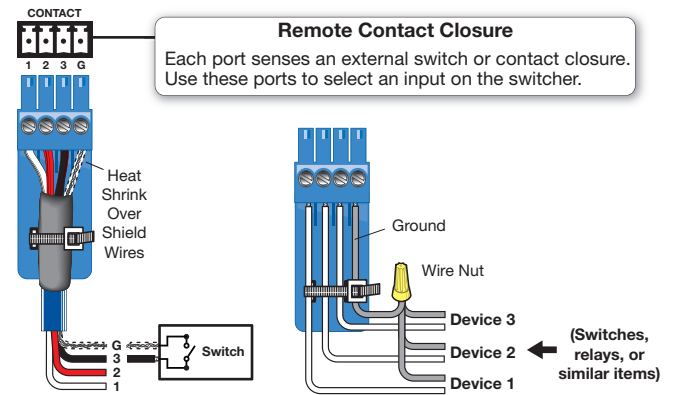
4. If desired, repeat steps 2 and 3 for the opposite mounting screw and bracket.
5. Loosely place the included tie wrap around the HDMI connectors and the LockIt lacing brackets as shown.
6. While holding the connectors securely against the lacing bracket, use pliers or similar tools to tighten the tie wrap, then remove any excess length.

- ④ **Analog audio input connector** — Connect an unbalanced analog audio input source to the 3.5 mm TRS jack. This is shared by all three video inputs. HDMI embedded audio is given priority over analog audio.
- ⑤ **HDMI switched output connector** — Connect a display device to the female type A HDMI output connector for switched local HDMI output of input 1, 2 or 3.
- ⑥ **Fiber optic connector** — Connect a fiber optic cable between the Tx port on the FOX T USW 203 and the Rx port on a receiver. To return serial data from the receiver or for HDCP-compliance, connect a cable between the Tx port on the receiver and Rx port on the transmitter. The Link LEDs for the Tx and Rx ports light when there is fiber light present on the corresponding port.
- ⑦ **RS-232 Over Fiber and Alarm connector** — To pass serial command signals to a receiver, connect the host device to the leftmost poles (Tx, Rx, and G) of this 5-pole captive screw connector. For remote monitoring of the status of fiber optic link 2, connect a custom monitoring device to the rightmost poles (1 and 2) of this 5-pole captive screw connector.

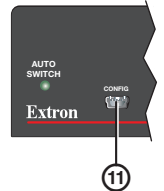


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- ⑧ **Remote contact closure connector** — Connect a suitable contact closure device to this 3.5 mm, 4-pole captive screw connector for remote input selection.
- ⑨ **Remote RS-232 connector** — For serial RS-232 control of the FOX T USW 203 and firmware upgrades, connect a host device or control system to this 3.5 mm, 3-pole captive screw connector (see [Remote Control](#) below).
- ⑩ **Power connector** — Connect the provided 12 VDC external power supply to this 2-pole captive screw connector.



- ⑪ **Config port** — Connect a host device, such as a computer, to the front panel mini Type B USB connector to provide configuration, control, or firmware upgrades to the switcher (see [Remote Control](#) below).



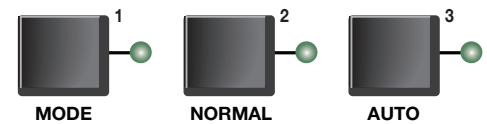
Operation

Input Selection Buttons

The three buttons with corresponding LEDs on the front panel (labeled Mode or 1, Normal or 2, and Auto or 3) manually select inputs 1 through 3 and enable different operating modes. The LEDs light to indicate the active input and provide feedback.

Input selection

Press the input selection button that corresponds with desired rear panel input connector to activate that input signal.



Front panel lockout mode (executive mode)

Push and hold input buttons 1, 2, and 3 simultaneously for 5 seconds to enable or disable front panel configuration. All of the front panel LEDs blink 3 times. In executive mode, contact closure and RS-232 control are still available.

Auto switch mode

Press and hold input buttons 1 and 3 simultaneously for 3 seconds. After releasing the buttons, the Auto Switch LED lights to indicate that auto switch mode is enabled. This prioritizes the highest numbered active input.

NOTE: Setting auto switch mode to prioritize the lowest numbered active input can be done only with SIS commands (see the *FOX T USW 203 User Guide* for more details).

Normal switch mode

Press and hold inputs 1 and 2 simultaneously for 3 seconds. After releasing the buttons, the Auto Switch LED turns off to indicate that auto switch mode is disabled. This is the default mode.

Remote Control

The FOX T USW 203 can be controlled through the Extron FOX Extenders Control Software, SIS commands, remote RS-232, or a contact closure device (see [Step 2 - Making Connections](#) for connection details).

Install the FOX Extenders Control Software on a computer running a Windows® operating system. The control program can be installed from the *Extron Software Products DVD* or downloaded from the Extron website, www.extron.com (see the *FOX T USW 203 User Guide*).

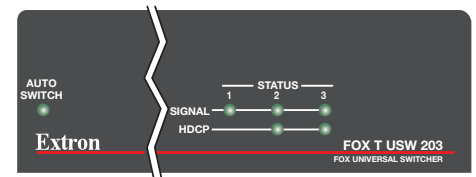
Indicators

Auto Switch LED — Lights when the device is in auto switch mode.

Input selection LEDs — Light to signify status or give feedback of the currently selected input (see [Input Selection Buttons](#) above).

Signal Status LEDs — Light when an input signal is detected on the corresponding input.

HDCP status LEDs — Light when an HDMI input signal is HDCP compliant. Input 1 has no HDCP capabilities.



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